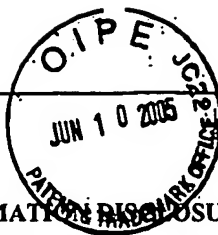


FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
500444.04APPLICATION NO.
10/648,567

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)

Troy A. Manning

FILING DATE

August 25, 2003

GROUP ART UNIT

2133

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	AA	6,119,242	09/12/00	Harrison	713	503	
	AB						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	AA	5,463,337	10/31/95	Leonowich	327	158	
DT	AB	5,712,883	01/27/98	Miller et al.	375	371	
DT	AC	5,764,092	06/09/98	Wada et al.	327	271	
	AD	6,125,157	09/26/00	Donnelly et al.	375	371	
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DT	AP	Park, D. et al., "Fast Acquisition Frequency Synthesizer with the Multiple Phase Detectors", IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Vol. 2, May 1991. pp. 665-668.
	AQ	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	AA	5,666,313	09/09/97	Ichiguchi	365	195	
DT	AB	6,484,244 B1	11/19/02	Manning	711	154	
	AC						
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GROUP ART UNIT

Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	AA	5,120,990	06/09/92	Koker	307	269	
	AB	5,424,687	06/13/95	Fukuda	331	11	
	AC	5,515,403	05/07/96	Sloan et al.	375	371	
	AD	5,550,515	08/27/96	Liang et al.	331	11	
	AE	5,945,855	08/31/99	Momtaz	327	157	
	AF	5,953,386	09/14/99	Anderson	375	376	
	AG	6,115,318	09/05/00	Keeth	365	233	
	AH	6,173,432 B1	01/09/01	Harrison	716	1	
	AI	6,438,043 B2	08/20/02	Gans et al.	365	194	
↓	AJ	6,442,644 B1	08/27/02	Gustavson et al.	711	105	
DT	AK	6,665,222 B2	12/16/03	Wright et al.	365	203	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
D7	AA 4,984,255	01/08/91	Davis et al.	375	106	
	AB 5,315,269	05/24/94	Fujii	331	1 A	
	AC 5,577,079	11/19/96	Zenno et al.	375	373	
	AD 6,026,134	02/15/00	Duffy et al.	375	376	
	AE 6,087,857	07/11/00	Wang	327	5	
	AF 6,253,360 B1	06/26/01	Yoshiba	716	6	
VD7	AG 6,285,726 B1	09/04/01	Gaudet	375	376	
	AH					
	AI					
	AJ					

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DT	AA	6,014,042	01/11/00	Nguyen	327	3	
↓	AB	6,295,328 B1	09/25/01	Kim et al.	375	376	
↓	AC	6,327,318 B1	12/04/01	Bhullar et al.	375	374	
DT	AD	6,377,646 B1	04/23/02	Sha	375	376	
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	AA	3,633,174	01/04/72	Griffin	340	172.5	
	AB	4,004,100	01/18/77	Takimoto	179	15 BS	
	AC	4,077,016	02/28/78	Sanders et al.	331	4	
	AD	4,096,402	06/20/78	Schroeder et al.	307	362	
	AE	4,404,474	09/13/83	Dingwall	307	260	
	AF	4,481,625	11/06/84	Roberts et al.	370	85	
	AG	4,508,983	04/02/85	Allgood et al.	307	577	
	AH	4,511,846	04/16/85	Nagy et al.	328	164	
	AI	4,514,647	04/30/85	Shoji	307	269	
	AJ	4,524,448	06/18/85	Hullwegen	375	118	
	AK	4,573,017	02/25/86	Levine	327	114	
	AL	4,600,895	07/15/86	Landsman	331	1 A	
	AM	4,603,320	07/29/86	Farago	341	89	
	AN	4,638,187	01/20/87	Boler et al.	307	451	
	AO	4,638,451	01/20/87	Hester et al.	395	889	
	AP	4,687,951	08/18/87	McElroy	307	269	
	AQ	4,727,541	02/23/88	Mori et al.	370	112	
	AR	4,746,996	05/24/88	Furuhata et al.	360	36.2	
	AS	4,773,085	09/20/88	Cordell	375	120	
	AT	4,789,796	12/06/88	Foss	307	443	
	AU	4,818,995	04/04/89	Takahashi et al.	341	94	
	AV	4,893,087	01/09/90	Davis	328	14	
	AW	4,902,986	02/20/90	Lesmeister	331	25	
	AX	4,953,128	08/28/90	Kawai et al.	365	194	
✓	AY	4,958,088	09/18/90	Farah-Bakhsh et al.	307	443	
DD	AZ	4,972,470	11/20/90	Farago	380	3	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	BA	4,984,204	01/08/91	Sato et al.	365	189.11	
	BB	5,020,023	05/28/91	Smith	364	900	
	BC	5,038,115	08/06/91	Myers et al.	331	2	
	BD	5,062,082	10/29/91	Choi	365	230.06	
	BE	5,075,569	12/24/91	Branson	307	270	
	BF	5,086,500	02/04/92	Greub	395	550	
	BG	5,087,828	02/11/92	Sato et al.	307	269	
	BH	5,122,690	06/16/92	Bianchi	307	475	
	BI	5,128,560	07/07/92	Chern et al.	307	475	
	BJ	5,128,563	07/07/92	Hush et al.	307	482	
	BK	5,130,565	07/14/92	Girmay	307	265	
	BL	5,134,311	07/28/92	Biber et al.	307	270	
	BM	5,150,186	09/22/92	Pinney et al.	357	42	
	BN	5,165,046	11/17/92	Hesson	307	270	
	BO	5,168,199	12/01/92	Huffman et al.	315	370	
	BP	5,179,298	01/12/93	Hirano et al.	307	443	
	BQ	5,182,524	01/26/93	Hopkins	330	149	
	BR	5,194,765	03/16/93	Dunlop et al.	307	443	
	BS	5,212,601	05/18/93	Wilson	360	51	
	BT	5,220,208	06/15/93	Schenck	307	443	
	BU	5,223,755	06/29/93	Richley	307	603	
	BV	5,229,929	07/20/93	Shimizu et al.	363	98	
	BW	5,233,314	08/03/93	McDermott et al.	331	17	
	BX	5,233,564	08/03/93	Ohshima et al.	365	230.05	
✓	BY	5,239,206	08/24/93	Yanai	307	272.2	
DT	BZ	5,243,703	09/07/93	Farmwald et al.	395	325	

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DT	CA	5,254,883	10/19/93	Horowitz et al.	307	443	
	CB	5,256,989	10/26/93	Parker et al.	331	1 A	
	CC	5,257,294	10/26/93	Pinto et al.	375	120	
	CD	5,268,639	12/07/93	Gasbarro et al.	324	158 R	
	CE	5,272,729	12/21/93	Bechade et al.	375	118	
	CF	5,274,276	12/28/93	Casper et al.	307	443	
	CG	5,276,642	01/04/94	Lee	365	189.04	
	CH	5,278,460	01/11/94	Casper	307	296.5	
	CI	5,281,865	01/25/94	Yamashita et al.	307	279	
	CJ	5,283,631	02/01/94	Koerner et al.	307	451	
	CK	5,289,580	02/22/94	Latif et al.	395	275	
	CL	5,295,164	03/15/94	Yamamura	375	120	
	CM	5,304,952	04/19/94	Quiet et al.	331	1 A	
	CN	5,311,481	05/10/94	Casper et al.	365	230.06	
	CO	5,311,483	05/10/94	Takasugi	365	233	
	CP	5,313,431	05/17/94	Uruma et al.	365	230.05	
	CQ	5,315,388	05/24/94	Shen et al.	348	718	
	CR	5,321,368	06/14/94	Hoelzle	328	63	
	CS	5,337,285	08/09/94	Ware et al.	365	227	
	CT	5,341,405	08/23/94	Mallard, Jr.	375	120	
	CU	5,347,177	09/13/94	Lipp	307	443	
	CV	5,347,179	09/13/94	Casper et al.	307	451	
	CW	5,355,391	10/11/94	Horowitz et al.	375	36	
	CX	5,361,002	11/1/94	Casper	327	530	
✓	CY	5,367,649	11/22/94	Cedar	395	375	
DT	CZ	5,379,299	01/03/95	Schwartz	370	108	

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DT	DA	5,390,308	02/14/95	Ware et al.	395	400	
	DB	5,400,283	03/21/95	Raad	365	203	
	DC	5,402,389	03/28/95	Flannagan et al.	365	233	
	DD	5,408,640	04/18/95	MacIntyre et al.	395	550	
	DE	5,410,263	04/25/95	Waizman	327	141	
	DF	5,416,436	05/16/95	Rainard	327	270	
	DG	5,416,909	05/16/95	Long et al.	395	275	
	DH	5,420,544	05/30/95	Ishibashi	331	11	
	DI	5,428,311	06/27/95	McClure	327	276	
	DJ	5,428,317	06/27/95	Sanchez et al.	331	1 A	
	DK	5,430,408	07/04/95	Ovens et al.	327	407	
	DL	5,430,676	07/04/95	Ware et al.	365	189.02	
	DM	5,432,823	07/11/95	Gasbarro et al.	375	356	
	DN	5,438,545	08/01/95	Sim	365	189.05	
	DO	5,440,260	08/08/95	Hayashi et al.	327	278	
	DP	5,440,514	08/08/95	Flannagan et al.	365	194	
	DQ	5,444,667	08/22/95	Obara	365	233	
	DR	5,446,696	08/29/95	Ware et al.	365	222	
	DS	5,448,193	09/05/95	Baumert et al.	327	156	
	DT	5,451,898	09/19/95	Johnson	327	563	
	DU	5,457,407	10/10/95	Shu et al.	326	30	
	DV	5,465,076	11/07/95	Yamauchi et al.	331	179	
	DW	5,473,274	12/05/95	Reilly et al.	327	159	
	DX	5,473,575	12/05/95	Farmwald et al.	365	230.06	
✓	DY	5,473,639	12/05/95	Lee et al.	375	376	
DT	DZ	5,485,490	01/16/96	Leung et al.	375	371	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
07	EA	5,488,321	01/30/96	Johnson	327	66	
	EB	5,489,864	02/06/96	Ashuri	327	161	
	EC	5,497,127	03/05/96	Sauer	331	17	
	ED	5,497,355	03/05/96	Mills et al.	365	230.08	
	EE	5,498,990	03/12/96	Leung et al.	327	323	
	EF	5,500,808	03/19/96	Wang	364	578	
	EG	5,502,672	03/26/96	Kwon	365	189.05	
	EH	5,506,814	04/09/96	Hush et al.	365	230.03	
	EI	5,508,638	04/16/96	Cowles et al.	326	38	
	EJ	5,513,327	04/30/96	Farmwald et al.	395	309	
	EK	5,532,714	07/02/96	Knapp et al.	345	114	
	EL	5,539,345	07/23/96	Hawkins	327	150	
	EM	5,544,124	08/06/96	Zagar et al.	365	230.08	
	EN	5,544,203	08/06/96	Casasanta et al.	375	376	
	EO	5,550,783	08/27/96	Stephens, Jr. et al.	365	233	
	EP	5,552,727	09/03/96	Nakao	327	159	
	EQ	5,555,429	09/17/96	Parkinson et al.	395	800	
	ER	5,557,224	09/17/96	Wright et al.	327	115	
	ES	5,557,781	09/17/96	Stones et al.	395	550	
	ET	5,563,546	10/08/96	Tsukada	327	408	
	EU	5,568,075	10/22/96	Curran et al.	327	172	
	EV	5,568,077	10/22/96	Sato et al.	327	199	
	EW	5,572,557	11/05/96	Aoki	375	376	
	EX	5,572,722	11/05/96	Vogley	395	555	
✓	EY	5,574,698	11/12/96	Raad	365	230.06	
DT	EZ	5,576,645	11/19/96	Farwell	327	94	
EXAMINER <i>David P. ...</i>				DATE CONSIDERED 9/21/05			
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DN	FA	5,577,236	11/19/96	Johnson et al.	395	551	
	FB	5,578,940	11/26/96	Dillon et al.	326	30	
	FC	5,578,941	11/26/96	Sher et al.	326	34	
	FD	5,579,326	11/26/96	McClure	371	61	
	FE	5,581,197	12/03/96	Motley et al.	326	30	
	FF	5,589,788	12/31/96	Goto	327	276	
	FG	5,590,073	12/31/96	Arakawa et al.	365	185.08	
	FH	5,594,690	01/14/97	Rothenberger et al.	365	189.01	
	FI	5,614,855	03/25/97	Lee et al.	327	158	
	FJ	5,619,473	04/08/97	Hotta	365	238.5	
	FK	5,621,340	04/15/97	Lee et al.	327	65	
	FL	5,621,690	04/15/97	Jungroth et al.	365	200	
	FM	5,621,739	04/15/97	Sine et al.	371	22.1	
	FN	5,627,780	05/06/97	Malhi	365	185.09	
	FO	5,627,791	05/06/97	Wright et al.	365	222	
	FP	5,631,872	05/20/97	Naritake et al.	365	227	
	FQ	5,636,163	06/03/97	Furutani et al.	365	233	
	FR	5,636,173	06/03/97	Schaefer	365	230.03	
	FS	5,636,174	06/03/97	Rao	365	230.03	
	FT	5,638,335	06/10/97	Akiyama et al.	365	230.03	
	FU	5,646,904	07/08/97	Ohno et al.	365	233	
	FV	5,652,530	07/29/97	Ashuri	326	93	
	FW	5,657,289	08/12/97	Hush et al.	365	230.05	
	FX	5,657,481	08/12/97	Farmwald et al.	395	551	
✓	FY	5,663,921	09/02/97	Pascucci et al.	365	233	
DT	FZ	5,666,322	09/09/97	Conkle	365	233	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DT	GA	5,668,763	09/16/97	Fujioka et al.	365	200	
	GB	5,668,774	09/16/97	Furatani	365	233	
	GC	5,673,005	09/30/97	Pricer	331	1 R	
	GD	5,675,274	10/07/97	Kobayashi et al.	327	158	
	GE	5,675,588	10/07/97	Maruyama et al.	371	20.4	
	GF	5,692,165	11/25/97	Jeddeloh et al.	395	551	
	GG	5,694,065	12/02/97	Hamasaki et al.	327	108	
	GH	5,708,611	01/13/98	Iwamoto	365	233 X	
	GI	5,712,580	01/27/98	Baumgartner et al.	327	12	
	GJ	5,719,508	02/17/98	Daly	327	12	
	GK	5,737,342	04/07/98	Ziperovich	371	25.1	
	GL	5,740,123	04/14/98	Uchida	365	233	
	GM	5,751,665	05/12/98	Tanoi	368	120	
	GN	5,767,715	06/16/98	Marquis et al.	327	159	
	GO	5,768,177	06/16/98	Sakuragi	365	194	
	GP	5,774,699	06/30/98	Nagae	395	551	
	GQ	5,778,214	07/07/98	Taya et al.	395	551	
	GR	5,781,499	07/14/98	Koshikawa	365	233	
	GS	5,784,422	07/21/98	Heermann	375	355	
	GT	5,789,947	08/04/98	Sato	327	3	
	GU	5,790,612	08/04/98	Chengson et al.	375	373	
	GV	5,794,020	08/11/98	Tanaka et al.	395	552	
	GW	5,805,931	09/08/98	Morzano et al.	395	884	
	GX	5,812,619	09/22/98	Runaldue	375	376	
✓	GY	5,822,314	10/13/98	Chater-Lea	370	337	
DT	GZ	5,831,929	11/03/98	Manning	365	233	

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DT	HA	5,841,707	11/24/98	Cline et al.	365	194	
	HB	5,852,378	12/22/98	Keeth	327	171	
	HC	5,872,959	02/16/99	Nguyen et al.	395	552	
	HD	5,889,829	03/30/99	Chiao et al.	375	376	
	HE	5,898,242	04/27/99	Peterson	327	278	
	HF	5,898,674	04/27/99	Mawhinney et al.	370	247	
	HG	5,917,760	06/29/99	Millar	365	194	
	HH	5,920,518	07/06/99	Harrison et al.	365	233	
	HI	5,926,047	07/20/99	Harrison	327	159	
	HJ	5,926,436	07/20/99	Toda et al.	365	236	
	HK	5,940,608	08/17/99	Manning	395	551	
	HL	5,940,609	08/17/99	Harrison	395	559	
	HM	5,946,244	08/31/99	Manning	365	194	
	HN	5,953,284	09/14/99	Baker et al.	365	233	
	HO	5,964,884	10/12/99	Partovi et al.	713	503	
	HP	5,990,719	11/23/99	Dai et al.	327	244	
	HQ	6,005,823	12/21/99	Martin et al.	365	230.08	
	HR	6,011,732	01/04/00	Harrison et al.	365	194	
	HS	6,016,282	01/18/00	Keeth	365	233	
	HT	6,023,489	02/08/00	Hatch	375	208	
	HU	6,026,050	02/15/00	Baker et al.	635	233	
	HV	6,029,250	02/22/00	Keeth	713	400	
	HW	6,038,219	03/14/00	Mawhinney et al.	370	242	
	HX	6,067,592	05/23/00	Farmwald et al.	710	104	
✓	HY	6,101,152	08/08/00	Farmwald et al.	365	233	
DT	HZ	6,101,197	08/08/00	Keeth et al.	370	517	

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U.S. PATENT DOCUMENTS							
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DT	IA	6,105,157	08/15/00	Miller	714	744	
	IB	6,147,905	11/14/00	Seino	365	185.11	
	IC	6,147,916	11/14/00	Ogura	365	203	
	ID	6,160,423	12/12/00	Haq	327	41	
	IE	6,262,921 B1	07/17/01	Manning	365	194	
	IF	6,269,451 B1	07/31/01	Mullarkey	713	401	
	IG	6,298,450 B1	10/02/01	Liu et al.	713	502	
	IH	6,327,196 B1	12/04/01	Mullarkey	365	194	
	II	6,338,127 B1	01/08/02	Manning	711	167	
✓	IJ	6,378,079 B1	04/23/02	Mullarkey	713	401	
DT	IK	6,499,111 B2	12/24/02	Mullarkey	713	401	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DT	IL	0 171 720 A2	02/19/86	EP			X	
	IM	6-1237512	10/22/86	JP (Abstract Only)			X	
	IN	0 295 515 A1	12/21/88	EP			X	
	IO	2-112317	4/25/90	JP (+ Abstract)			X	
	IP	0 406 786 A1	1/9/91	EP			X	
	IQ	0 450 871 A2	10/9/91	EP			X	
	IR	0 476 585 A3	3/25/92	EP			X	
	IS	4-135311	5/8/92	JP (+ Abstract)			X	
	IT	5-136664	6/1/93	JP (+ Abstract)			X	
✓	IU	5-282868	10/29/93	JP (Abstract Only)			X	
DT	IV	WO 94/29871	12/22/94	PCT			X	

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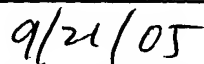
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DT	IW	0 655 741 A2	5/31/95	EP			X	
	IX	0 655 834 A1	5/31/95	EP			X	
	IY	WO 95/22200	8/17/95	PCT			X	
	IZ	WO 95/22206	8/17/95	PCT			X	
	JA	0 680 049 A2	11/2/95	EP			X	
	JB	0-7319577	12/8/95	JP (+ Abstract)			X	
	JC	0 703 663 A1	3/27/96	EP			X	
	JD	0 704 848 A3	4/3/96	EP			X	
	JE	0 704 975 A1	4/3/96	EP			X	
	JF	WO 96/10866	4/11/96	PCT			X	
	JG	0 767 538 A1	4/9/97	EP			X	
↓	JH	WO 97/14289	4/24/97	PCT			X	
DT	JI	WO 97/42557	11/13/97	PCT			X	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
DT	JJ	Alvarez, J. et al. "A Wide-Bandwidth Low Voltage PLL for PowerPC™ Microprocessors" IEEE IEICE Trans. Electron., Vol. E-78. No. 6, June 1995, pp. 631-639						
	JK	Anonymous, "400MHz SDRAM, 4M X 16 SDRAM Pipelined, Eight Bank, 2.5 V Operation," SDRAM Consortium Advance Sheet, published throughout the United States, pp.1-22						
	JL	Anonymous, "Draft Standard for a High-Speed Memory Interface (SyncLink)", Microprocessor and Microcomputer Standards Subcommittee of the IEEE Computer Society, Copyright 1996 by the Institute of Electrical and Electronics Engineers, Inc., New York, NY, pp. 1-56						
↓	JM	Anonymous, "Programmable Pulse Generator", IBM Technical Disclosure Bulletin, Vol. 17, No. 12, May 1975, pp. 3553-3554						
DT	JN	Arai, Y. et al., "A Time Digitizer CMOS Gate-Array with a 250 ps Time Resolution", XP 000597207, IEEE Journal of Solid-State Circuits, Vol. 31, No.2, February 1996, pp. 212-220						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DT	JO	Anonymous, "Pulse Combining Network", IBM Technical Disclosure Bulletin, Vol. 32, No. 12, May 1990, pp. 149-151
	JP	Anonymous, "Variable Delay Digital Circuit", IBM Technical Disclosure Bulletin, Vol. 35, No. 4A, September 1992, pp. 365-366
	JQ	Arai, Y. et al., "A CMOS Four Channel x 1K Time Memory LSI with 1-ns/b Resolution", IEEE Journal of Solid-State Circuits, Vol. 27, No. 3, M, 8107 March, 1992, No. 3, New York, US, pp. 359-364 and pp. 528-531
	JR	Aviram, A. et al., "OBTAINING HIGH SPEED PRINTING ON THERMAL SENSITIVE SPECIAL PAPER WITH A RESISTIVE RIBBON PRINT HEAD", IBM Technical Disclosure Bulletin, Vol. 27, No. 5, October 1984, pp. 3059-3060
	JS	Bazes, M., "Two Novel Fully Complementary Self-Biased CMOS Differential Amplifiers", IEEE Journal of Solid-State Circuits, Vol. 26, No. 2, February 1991, pp. 165-168
	JT	Chapman, J. et al., "A Low-Cost High-Performance CMOS Timing Vernier for ATE", IEEE International Test Conference, Paper 21.2, 1995, pp. 459-468
	JU	Cho, J. "Digitally-Controlled PLL with Pulse Width Detection Mechanism for Error Correction", ISSCC 1997, Paper No. SA 20.3, pp. 334-335
	JV	Christiansen, J., "An Integrated High Resolution CMOS Timing Generator Based on an Array of Delay Locked Loops", IEEE Journal of Solid-State Circuits, Vol. 31, No. 7, July 1996, pp. 952-957
	JW	Combes, M. et al., "A Portable Clock Multiplier Generator Using Digital CMOS Standard Cells", IEEE Journal of Solid-State Circuits, Vol. 31, No. 7, July 1996, pp. 958-965
	JX	Donnelly, K. et al., "A 660 MB/s Interface Megacell Portable Circuit in 0.3 μ m-0.7 μ m CMOS ASIC", IEEE Journal of Solid-State Circuits, Vol. 31, No. 12, December 1996, pp. 1995-2001
	JY	Goto, J. et al., "A PLL-Based Programmable Clock Generator with 50- to 350-MHz Oscillating Range for Video Signal Processors", IEICE Trans. Electron., Vol. E77-C, No. 12, December 1994, pp. 1951-1956
	JZ	Gustavson, David B., et al., "IEEE Standard for Scalable Coherent Interface (SCI)," IEEE Computer Society, IEEE Std. 1596-1992, August 2, 1993.
	KA	Hamamoto, T., "400-MHz Random Column Operating SDRAM Techniques with Self-Skew Compensation", IEEE Journal of Solid-State Circuits, Vol. 33, No. 5, May 1998, pp. 770-778
DT	KB	Ishibashi, A. et al., "High-Speed Clock Distribution Architecture Employing PLL for 0.6 μ m CMOS SOG", IEEE Custom Integrated Circuits Conference, 1992, pp. 27.6.1-27.6.4

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
DT	KC	Kim, B. et al., "A 30MHz High-Speed Analog/Digital PLL in 2 μ m CMOS", ISSCC, February 1990
	KD	Kikuchi, S. et al., "A GATE-ARRAY-BASED 666MHz VLSI TEST SYSTEM", IEEE International Test Conference, Paper 21.1, 1995, pp. 451-458
	KE	Ko, U. et al., "A 30-ps JITTER, 3.6- μ s LOCKING, 3.3-VOLT DIGITAL PLL FOR CMOS GATE ARRAYS", IEEE Custom Integrated Circuits Conference, 1993, pp. 23.3.1-23.3.4
	KF	Lee, T. et al., "A 2.5V Delay-Locked Loop for an 18Mb 500MB/s DRAM", IEEE International Solid-State Circuits Conference Digest of Technical Papers, Paper No. FA 18.6, 1994, pp. 300-301
	KG	Lesmeister, G., "A DENSELY INTEGRATED HIGH PERFORMANCE CMOS TESTER", International Test Conference, Paper 16.2, 1991, pp. 426-429
	KH	Ljuslin, C. et al., "An Integrated 16-channel CMOS Time to Digital Converter", IEEE Nuclear Science Symposium & Medical Imaging Conference Record, Vol. 1, 1993, pp. 625-629
	KI	Maneatis, J., "Low-Jitter Process-Independent DLL and PLL Based on Self-Biased Techniques", IEEE Journal of Solid-State Circuits, Vol. 31, No. 11, November 1996, pp. 1723-1732
	KJ	Nakamura, M. et al., "A 156 Mbps CMOS Clock Recovery Circuit for Burst-mode Transmission", Symposium on VLSI Circuits Digest of Technical Papers, 1996, pp. 122-123
	KK	Nielson, E., "Inverting latches make simple VCO", EDN, June 19, 1997
	KL	Novof, I. et al., "Fully Integrated CMOS Phase-Locked Loop with 15 to 240 MHz Locking Range and ± 50 ps Jitter", IEEE Journal of Solid-State Circuits, Vol. 30, No. 11, November 1995, pp. 1259-1266
	KM	Saeki, T. et al., "A 2.5-ns Clock Access, 250-MHz, 256-Mb SDRAM with Synchronous Mirror Delay", IEEE Journal of Solid-State Circuits, Vol. 31, No. 11, November 1996, pp. 1656-1665
	KN	Santos, D. et al., "A CMOS Delay Locked Loop And Sub-Nanosecond Time-to-Digital Converter Chip", IEEE Nuclear Science Symposium and Medical Imaging Conference Record, Vol. 1, October 1995, pp. 289-291
V	KO	Shirotori, T. et al., "PLL-based, Impedance Controlled Output Buffer", 1991 Symposium on VLSI Circuits Digest of Technical Papers, pp. 49-50.
DT	KP	Sidiropoulos, S. et al., "A 700-Mb/s/pin CMOS Signaling Interface Using Current Integrating Receivers", IEEE Journal of Solid-State Circuits, Vol. 32, No. 5, May 1997, pp. 681-690.
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DT	KQ	Sidiropoulos, S. et al., "A CMOS 500 Mbps/pin synchronous point to point link interface", IEEE Symposium on VLSI Circuits Digest of Technical Papers, 1994, pp. 43-44
	KR	Sidiropoulos, S. et al., "A Semi-Digital DLL with Unlimited Phase Shift Capability and 0.08-400MHz Operating Range," IEEE International Solid State Circuits Conference, February 8, 1997, pp.332-333
	KS	Soyuer, M. et al., "A Fully Monolithic 1.25GHz CMOS Frequency Synthesizer", IEEE Symposium on VLSI Circuits Digest of Technical Papers, 1994, pp. 127-128
	KT	Taguchi, M. et al., "A 40-ns 64-Mb DRAM with 64-b Parallel Data Bus Architecture", IEEE Journal of Solid-State Circuits, Vol. 26, No. 11, November 1991, pp. 1493-1497
	KU	Tanoi, S. et al., "A 250-622 MHz Deskew and Jitter-Suppressed Clock Buffer Using a Frequency- and Delay-Locked Two-Loop Architecture", 1995 Symposium on VLSI Circuits Digest of Technical Papers, Vol. 11, No. 2, pp. 85-86
	KV	Tanoi, S. et al., "A 250-622 MHz Deskew and Jitter-Suppressed Clock Buffer Using Two-Loop Architecture", IEEE IEICE Trans. Electron., Vol.E-79-C. No. 7, July 1996, pp.898-904
	KW	von Kaenel, V. et al., "A 320 MHz, 1.5 mW @ 1.35 V CMOS PLL for Microprocessor Clock Generation", IEEE Journal of Solid-State Circuits, Vol. 31, No. 11, November 1996, pp. 1715-1722
✓	KX	Watson, R. et al., "Clock Buffer Chip with Absolute Delay Regulation Over Process and Environmental Variations", IEEE Custom Integrated Circuits Conference, 1992, pp. 25.2.1-25.2.5
DT	KY	Yoshimura, T. et al. "A 622-Mb/s Bit/Frame Synchronizer for High-Speed Backplane Data Communication", IEEE Journal of Solid-State Circuits, Vol. 31, No. 7, July 1996, pp. 1063-1066
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